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(54) PADDING VALVE SEAT AND PADDING
METHOD THEREFOR

(57) Abstract:

PROBLEM TO BE SOLVED: To enable compatibility of padding efficiency and wear resistance by forming a padding valve seat comprising a padding layer made by padding material having good padding efficiency and a padding layer made by padding material having good wear resistance.

SOLUTION: The respective laser beams 4A, 4B obtained by making the laser beams oscillated by a laser oscillator 3 at the ratio of 7:3, for example, by a branch mirror 6 are converged by parabolic mirrors 7, 8, and the respective converged laser beams 4F, 4R are radiated to form a padding layer 13 made by padding material 10 having good padding efficiency and a padding layer 14 made by padding material 12 having good wear resistance. At this time, as padding material 10 supplied from a supply nozzle 9, used is

copper-alloy powder containing Al 5.0-10.0% (wt%), Ni 1.0-5.0%, Fe 1.0-4.0%. As padding material 12 supplied from a supply nozzle 11, used is copper-alloy powder containing Co 10-15%, Al 1-5%, Ni 10-15%, and vanadium.

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